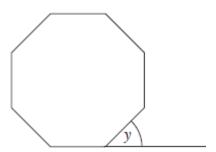
Q1.

(a) The diagram shows a regular octagon.

Not drawn accurately



The base line of the octagon is extended.

Work out the size of angle	e y.
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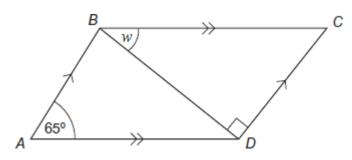
 	 •

Answer de	grees
-----------	-------

(2)

(b) ABCD is a parallelogram. BD is a diagonal.

Not drawn accurately



Work out the size of angle w.

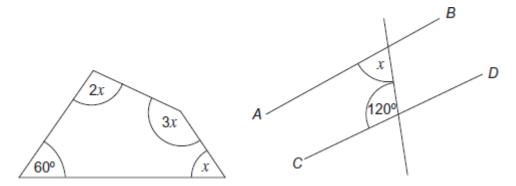

Answer	degrees
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(3)

(Total 5 marks)

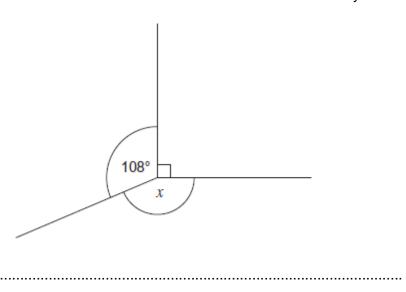
Q2.

Not drawn accurately



how that AB is <b>not</b> parallel to CD.	
(Tot	tal 4 marks)

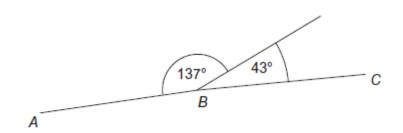
## **Q3.**(a) Work out the size of angle x



Answer	degrees	(2)

(b)

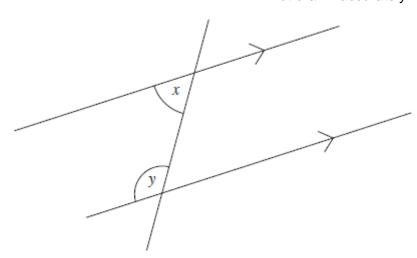
Not drawn accurately



Give a reason why, if drawn accurately, ABC would be a straight line.	
	(1)
	(Total 3 marks)

Q4.

Not drawn accurately



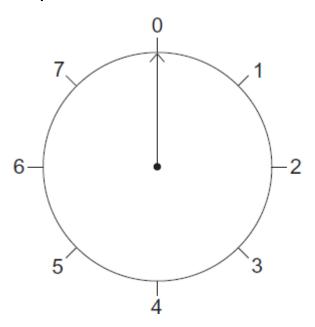
(a) Use the diagram to write an equation connecting x and y.

(b)

	Answer	(1)
The ratio	x: y = 2:3	
Use this informa	tion to write another equation connecting <i>x</i> and <i>y</i> .	

(Total 2 marks)

Q5.A circular spinner has 8 equal divisions as shown.



(a) The arrow turns clockwise from 0 to 4 What angle does it turn through? Answer ...... degrees

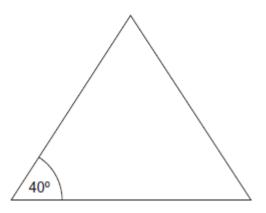
(1)

The arrow turns 45° clockwise from 5 (b) What number does it point to?

	Answer	(1)
(c)	The arrow turns anti-clockwise from 7 to 4	
	What angle does it turn through?	
	Answer degrees	(4)
		(1) (Total 3 marks)

**Q6.**The diagram shows an **isosceles** triangle.

Not drawn accurately

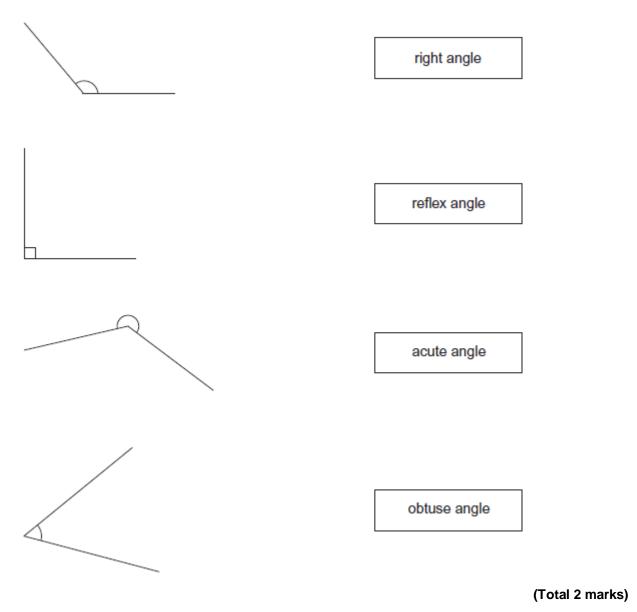


Work out the possible **sizes** of the other **two** angles. Give both **different** pairs of answers.

	40° and	and
or	40° and	. and

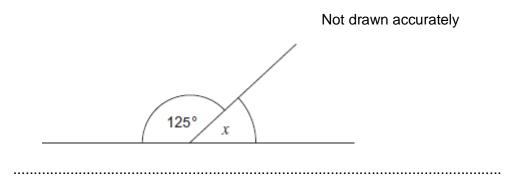
(Total 3 marks)

**Q7.**Draw a line to match each angle to the correct name.



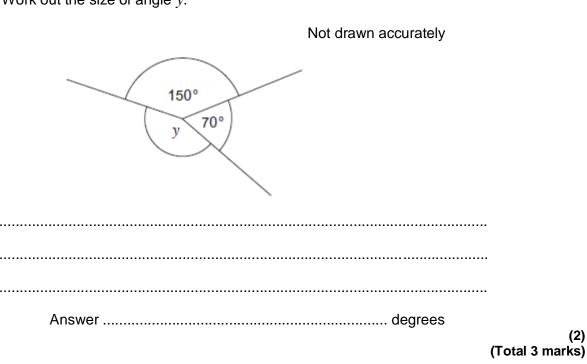
Q8.

(a) Work out the size of angle x.



Answer	 degrees	
		(1)

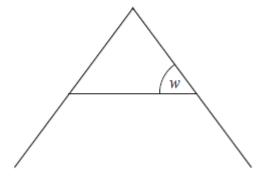
(b) Work out the size of angle y.



**Q9.**Jenna uses straight rods to make letters and numbers.

(a)

Not drawn accurately



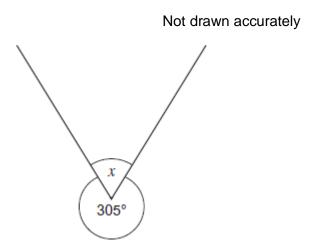
The triangle is equilateral.

What	is	the	size	of	and	е	w?
			00	٠.	α	_	,,,

Answer	 degrees

(1)

(b)

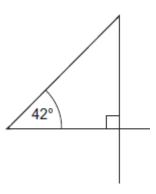


Work out the size of angle $x$ .
----------------------------------


Answer ...... degrees

(1)

(c)



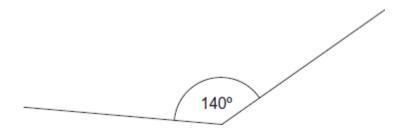
Is the triangle isosceles?
Give a reason for your answer


(Total 3 marks)

•••••••••••••••••••••••••••••••••••••••	
	(1)
	(Total 3 marks)
	(10tai 5 illaiks)

Q10.	A	— В	Not drawn accurately
	115° C		— D
	E 32°	— <i>F</i>	
	AB is parallel to $CD$ .		
	Is $EF$ parallel to $CD$ ? You <b>must</b> show your working.		

**Q11.**The diagram shows an interior angle of a **regular** polygon.



(a) Work out the size of an exterior angle of the polygon.

Answer ...... degrees

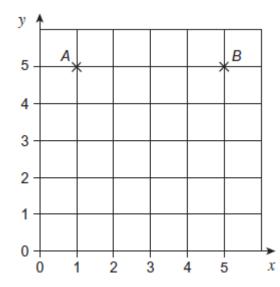
(1)

(b) Work out the number of sides of the polygon.

Answer .....

(Total 3 marks)

Q12. Points A and B are shown on the centimetre grid.



(a) Write down the coordinates of the midpoint of AB.

Answer (.....)

(1)

(b) Point C is plotted so that

its y-coordinate is 3

and

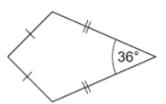
ABC is a right-angled triangle.

Write down the coordinates of **three** possible points for *C*.

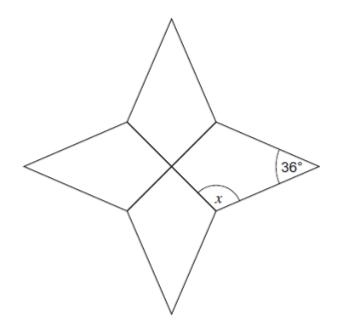
(3) (Total 4 marks)

Q13. The diagram shows a kite.

Not drawn accurately



Four identical kites are joined to make this shape.

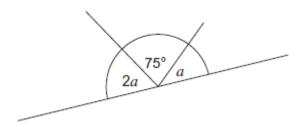


Work out the size of a	angle $x$ .			
			•••••	
	Answer	 	degrees	(Total 4 marks)
				( i Otal <del>T</del> Illai No

Q14.

(a) Three angles form a straight line.

Not drawn accurately

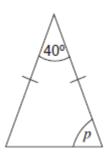


Calculate the value of a.


Answer ...... degrees (3)

(b) This triangle is isosceles.

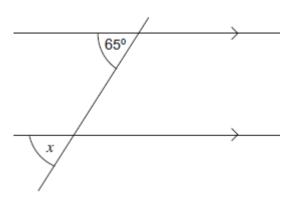
Not drawn accurately



Calculate the size	of angle $p$ .		
A	nswer	d	(2)

Q15.

Write down the size of angle x. Give a reason for your answer.



		Answer degrees	
	Reas	on	
		(Tot	al 2 marks)
Q16.	A mir The r	ror is made from triangles as shown. nirror is a square.	
		Not drawn accurately	
		23° 30° 46° 125° 68°	
	(a)	Work out angle w.	
		Answer degrees	(1)
	(b)	Work out angle x.	

(2)

(3)

	Answer	degrees
Work out a	ngle y.	
	Answer	degrees
The area o	f the square mirror is 4900 cm <sup>2</sup> .	
	N	lot drawn accurately
Work out th	e perimeter of the mirror.	